

سیاقای تکلیف ۱۷ پنجمیه (متران)

۱۷، ۱۹، ۱۰، ۹، ۸، ۷، ۶، ۵، ۴، ۳، ۲، ۱

اد $\rightarrow 1, 2, 5, 10, 17$
 $a+b+c$
 $a+b+c$
 $a+b+c$

$a=1$
 $b=2$
 $c=2$
 $\rightarrow 1n^2 - 4n + 2$
 $\xrightarrow{n=9} 11 - 18 + 2 = -5$

آفری $\rightarrow 1, 4, 9, 16, 25 \rightarrow n^2 \xrightarrow{n=9} 81$

$81 + 9 = 90$
 $\boxed{90}$

$1, 2, 3$
 $4, \dots, 12$
 $13, \dots, 29$
 $30, \dots, 42$
 $43, \dots, 59$

$15 \times 43 - 121 = 645 - 121 = 524$
 $\xrightarrow{2} 262$

$\rightarrow 262 (484) = 524$
 $\xrightarrow{\text{میان}}$
 $\xrightarrow{262} 524$
 $\boxed{524}$

$129, \dots, 363 \rightarrow 363 - 121 = 242$
 $\boxed{242}$

سوال ۳ صفی بوی:

$a=14$
 $a=14$
 $a=14$

$a=14$
 $a=14$
 $a=14$

$a = \frac{1}{2} \times (-14) = -\frac{1}{2} \times 14 = -7$

$\xrightarrow{14} 14$
 $\boxed{14}$

$\xrightarrow{n=5} -\frac{1}{2}(25) + ab + c = 14 \rightarrow ab + c = 19$

$\xrightarrow{n=7} -\frac{1}{2}(49) + ab + c = 14 \times 7 \rightarrow 7b + c = 27$

$a = -\frac{1}{2}$
 $b = 4$
 $c = -1$

2

$$a_n = \begin{cases} n^2, & n \leq 4 \\ -2n+4, & n \leq 4 \\ \left\lfloor \frac{n}{4} \right\rfloor + a, & n \leq 4 \end{cases} \xrightarrow{(1)} a_0, a_1, a_2, a_3, a_4$$

$$\Rightarrow a_0 = 0, a_1 = 1, a_2 = 2, a_3 = 3, a_4 = 4$$

$$\Rightarrow a_1 = -2(1)+4=2, a_2 = -2(2)+4=0, a_3 = -2(3)+4=-2, a_4 = -2(4)+4=-4$$

$$\Rightarrow a_2 = \left\lfloor \frac{2}{4} \right\rfloor + a = 0 + a = a, a_3 = \left\lfloor \frac{3}{4} \right\rfloor + a = 0 + a = a, a_4 = \left\lfloor \frac{4}{4} \right\rfloor + a = 1 + a = a+1$$

$$S_1 = 1 + 4 + a_2 + 2 + 4 + a_3 + 4 + 0 + a_4 + 1 = 14$$

$$a_2 + a_3 + a_4 = -2 \rightarrow 2a + 4 = -2 \rightarrow a = -2$$

$$S_2 = a_2 + a_3 + a_4 + \dots + a_{n-1} \Rightarrow a_n = \left\lfloor \frac{n}{4} \right\rfloor + (-2)$$

$$a_n = \left\lfloor 2 + \frac{n-2}{4} \right\rfloor - 2 = \left\lfloor \frac{n+2}{4} \right\rfloor \rightarrow \text{برابر با صفر چون } n-2 < n+2$$

فقط برای صفر مساوی با 1-ی شور
و برای یک

$$S = a_2 + a_3 + a_4 + \dots + a_{n-1}$$

$$S = (1) + (-1) + 0 + 0 + \dots + 0 = -2$$

$$a_1 = t_r \rightarrow a_1 + r d = r p + q$$

$$a_1 = t_v \rightarrow a_1 + v d = v p + q$$

$$t_{10} s_0 = 10 p + q \text{ so } \rightarrow \boxed{q = -10p} \quad \star$$

$$a_1 - a_1 = t_v - t_r$$

$$a_1 + v d - a_1 + r d = v p + q - r p - q$$

$$r d = v p \rightarrow d = \frac{v}{r} p$$

$$t_{10} = 10 p + q - 10 p = q \rightarrow \frac{q}{p} = r \quad \star$$

$$a_1 = a$$

$$d \quad q a^r = \omega a^r + r a^r a$$

$$q(a+d)^r = \omega(a+r d)(a) + r(a+d)(a)$$

$$q(a^r + b^r + r a b) = \omega(a^r + r a d) + r(a^r + a d)$$

$$q a^r + q b^r + r a b = \omega a^r + \omega r a d + r a^r + r a d$$

$$r a^r + r a b$$

$$r a^r + a b - q b^r = 0 \rightarrow (r a - r)(a + r d) = 0$$

$$\frac{a_1 + r d}{d}$$

$$\left[\begin{array}{l} \frac{r d + r d}{d} = \frac{a}{r} \\ - \frac{r d + r d}{d} = 1 \end{array} \right]$$

✓

$$a, b, c \rightarrow n, n+d, n+2d$$

حسابی

$$\frac{n+2d}{2}, \frac{n}{2}, n+d$$

فرضی

$$\rightarrow \frac{\frac{n+2d}{2}}{\frac{a}{2}} = \frac{\frac{a}{2}}{a+d} \rightarrow -\frac{2a}{2} \text{ sd } \left\{ \frac{\frac{a}{2}}{b} = \frac{\frac{a}{2}}{a+b} \right.$$

$$\rightarrow \left. \frac{a+2}{2} \right\}$$

$$\rightarrow \boxed{s = -1}$$

1

$$a, b, c \rightarrow n, nr, nr^2 \rightarrow r b^x \text{ so } ac$$

$$\hookrightarrow rnr, rn, nr^2 \rightarrow rn \text{ s } nr + nr^2$$

$$r^2 + r^2 \rightarrow r^2 + r^2 - r^2 \rightarrow (r-1)(r+1) = 0$$

بجای 0 و 1 و -1

$$\Rightarrow \frac{a}{a} = r^2 \text{ s } (-1)^2 = -1$$

سوال 9 منو بری

10

$$a^2 = \sqrt{a} \rightarrow (a^2)^2 = a^4 \rightarrow a^2 a^2 \rightarrow a^4 \text{ s}$$

$$a \omega \text{ s } r^2 \rightarrow a^2 r^2 \rightarrow (a^2)^2 r^2 \rightarrow a^4 r^2 \text{ s } r^2$$

$$\left| \frac{1}{2} - a \right| = \left| \frac{1}{2} - \frac{1}{2} \right| = \boxed{\frac{1}{2}}$$

q s r

ce s 1/2

④

$$\frac{a q^w}{(a q^r)^r} = \frac{a^r q^w}{a^r \times q^r} = \frac{q^r}{a^r}$$

$$\frac{q^r}{a^r} = \frac{a q^r}{a^r} = \frac{a q}{a}$$

$$\left(\frac{q}{a}\right)^r \times \frac{a}{a} = 150$$

$$\left(\frac{q}{a} + 1\right) \left(\frac{q}{a} - 1\right) = 0 \quad \uparrow \quad \frac{q}{a} = 1 \rightarrow \frac{a}{q} = 1$$

$$\rightarrow \frac{q}{a} = -1 \rightarrow \frac{a}{q} = -1$$